

**REMARKS**

**Present Status of the Application**

Applicants thank the Examiner for the thorough examination of this application.

In this current Office Action, claim 10 is rejected under 35 U.S.C. 112, 1<sup>st</sup> paragraph, as failing to comply with the written description requirement. Claims 7 and 10 are rejected under 35 U.S.C. 112, 2<sup>nd</sup> paragraph, as being indefinite for failing to point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1, 10 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Yumoto (WO/2001/006484A corresponding to U.S. Pat. No.6,859,193; hereinafter "Yumoto"). Claims 7, 9, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yumoto.

Applicants have amended claims 1, 7-8, and 13 to more clearly define the present application. Applicants have cancelled claims 10 and 15-16. Applicants have newly added claim 17 into the present application. Applicants have amended paragraphs [0012]-[0014], [0023], [0026], and [0029]-[0037] of the present specification. The amended/newly-added claims and the amended paragraphs are fully supported by the originally specification and drawings of the present application without adding new matter.

After entry of the foregoing amendments, claims 1, 7-9, 11-14 and 17 remain pending in the present invention, and reconsideration of those claims is respectfully requested.

**Discussion of Claim Rejections under 35 U.S.C. 112**

Claim 10 is rejected under 35 U.S.C. 112, 1<sup>st</sup> paragraph, as failing to comply with the written description requirement.

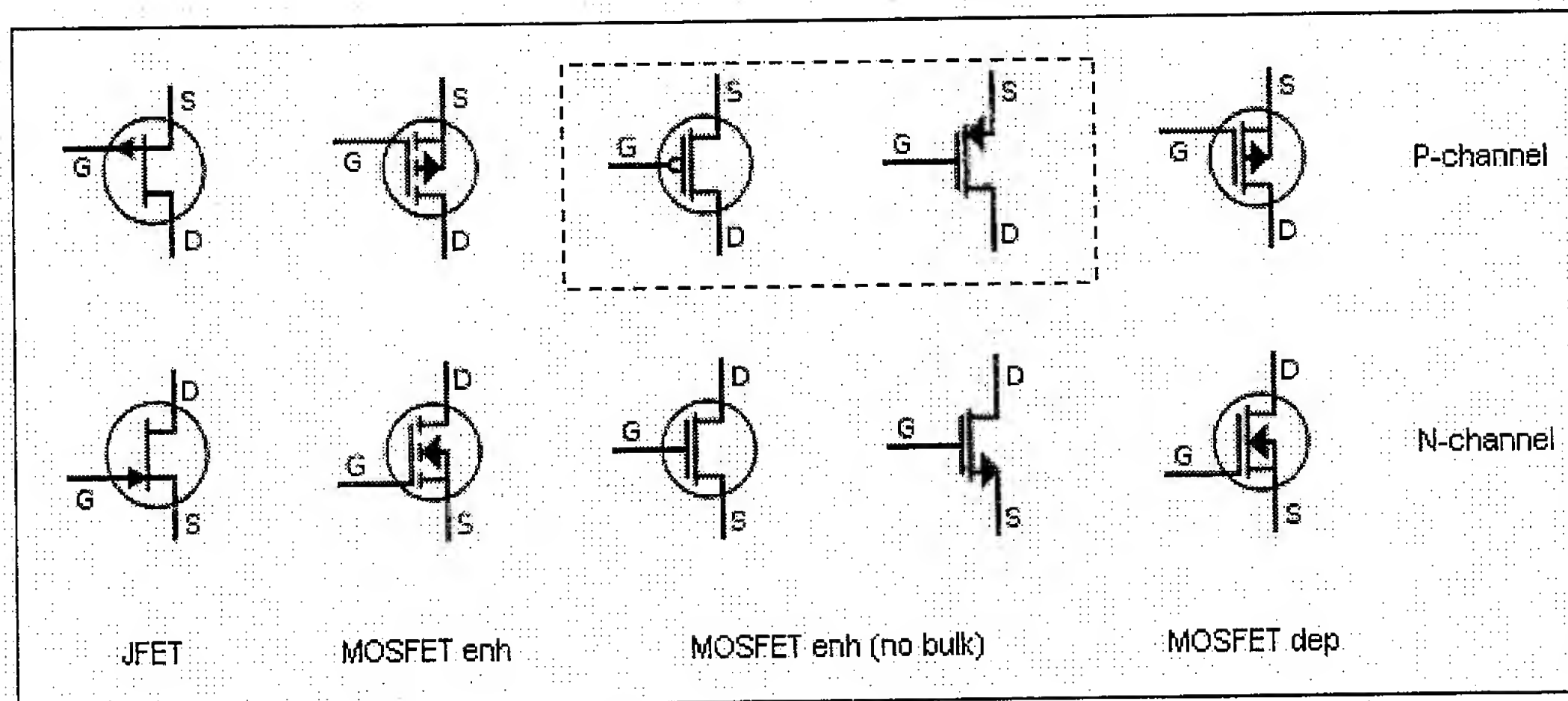
In response thereto, Applicants have cancelled claim 10, so all rejections thereto should be rendered moot.

Claims 7 and 10 are rejected under 35 U.S.C. 112, 2<sup>nd</sup> paragraph, as being indefinite for failing to point out and distinctly claim the subject matter which applicant regards as the invention.

In response thereto, Applicants have amended the limitation “P-type” as set forth in the present specification to “P-channel”.

To be specific, the circuit symbol of thin-film-transistor (TFT) as shown in FIG. 7 of the present drawings is a P-channel enhancement-type MOSFET without bulk; please refer to **FIG. 5.18 on page 373 of Microelectronic Circuits by Sedra/Smith, 4<sup>th</sup> edition.**

In addition, please refer to the website: <http://en.wikipedia.org/wiki/MOSFET>. It shows the circuit symbols for MOSFET as below:



It can be clearly seen that P-channel enhancement-type MOSFET without bulk (i.e. no bulk) has two types of circuit symbols in the dotted line block. Accordingly, based on the circuit symbol of TFT as shown in FIG. 7 of the present drawings, one person having ordinary skilled in the art would be known that what "type" of TFT is intended to convey.

Therefore, the rejection under 35 U.S.C. 112, 2<sup>nd</sup> paragraph, for claim 7 should be withdrawn according to amending "P-type" to "P-channel".

### **Discussion of Claim Rejections under 35 U.S.C. 102 and 103**

Claims 1, 10 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Yumoto. Claims 7, 9, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yumoto.

In response thereto, Applicants have amended the independent claim 1 to more clearly define the present application, such that Applicants hereby otherwise traverse

these rejections based on the currently amended claim 1.

Based on “Response to Arguments” of the current Office Action, Examiner asserted that most connections as set forth in the previously presented claim 1 belong to “indirectly connections” rather than “directly connections”.

Accordingly, Applicants have amended all connections as set forth in the currently claim 1 to be “directly connections” and added control signals for all switches into the currently amended claim 1 and related paragraphs of the present specification according to FIGs. 5-7 of the present drawings.

Therefore, the AMOLED pixel structure as set forth in the currently amended claim 1 would not be read on by Yumoto’s FIG. 8. In addition, since Yumoto’s FIG. 8 is a modification of the embodiment of Yumoto’s FIG. 5, so the operation waveforms are similarly to Yumoto’s FIGs. 6A to 6D. Herein, it can be clearly seen that, from Yumoto’s FIGs. 6A to 6D, when TFT4b (corresponding to the pre-charge switch of the present application) is first turned on in response to scanB, no any voltage can be pre-charged to the capacitor C because TFT3 is not turned on in response to scanA. As a result, there is no pre-charge mechanism to pre-charge the capacitor C before the current source CS charges or discharges the capacitor C.

From the above, since Yumoto DOES NOT disclose, teach and read on all of features as set forth in the currently amended claim 1, specifically, the AMOLED pixel structure and the pre-charge mechanism. Therefore, the currently amended claim 1 is novel, non-obvious and patentable over Yumoto, or any of the other cited references,

taken alone or in combination, and thus should be allowed.

If an independent claim is non-obvious under 35 U.S.C. 103, then any claim depending therefrom is non-obvious. *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988). As a result, claims 7, 9 and 11 depending upon the allowable claim 1 should be allowed as a matter of law.

**Newly added claim**

Applicants have newly added claim 17 into the present application, and the newly added claim 17 is directed to an AMOLED pixel which is similarly to the currently amended claim 1. Accordingly, since Yumoto DOES NOT disclose, teach and read on the AMOLED pixel structure as set forth in the currently amended claim 1. Therefore, the currently amended claim 17 is also novel, non-obvious and patentable over Yumoto, or any of the other cited references, taken alone or in combination, and thus should be allowed.

**CONCLUSION**

For at least the foregoing reasons, it is believed that the pending claims 1, 7-9, 11-14 and 17 are in proper condition for allowance and an action to such effect is earnestly solicited. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

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Respectfully submitted,

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